

CLAIMS

1. A mobile telephone device as part of a hands-free device in a motor vehicle, for example private automobiles, heavy goods vehicles and other utility vehicles, comprising

an electronic control device for the hands-free device,

a base member (1) which can be installed in the motor vehicle and

an interchangeable holding member for temporarily receiving a mobile telephone,

wherein the base member (1) and/or the holding member (11) has or have a mechanical connecting device and/or an electrical and/or electronic contacting device (10) for the holding member,

characterised in that

there is provided at least one module unit (20) which forms an expansion and/or memory unit and which has an analog function unit and/or a digital memory device and/or a digital function unit,

wherein the base member (1) and/or the holding member (11) has or have a receiving means (8) for the module unit (20),

wherein the module unit can be inserted into the receiving means (8) while the base member (1) is installed in the motor vehicle,

wherein the receiving means (8) has electrical and/or electronic contact elements at the receiving means side and the module unit (20) which can be releasably inserted into the receiving means (8) has electrical and/or electronic contact elements at the module side, which are arranged in corresponding relationship with the contact elements at the receiving means side, and

that when the module unit (20) is engaged in position it is conductingly connected to the control device by way of the contact elements.

2. A mobile telephone device as set forth in claim 1 characterised in that the module unit (20) is a one-piece structural unit and/or is of a closed shape, preferably with a closed casing.

3. A mobile telephone device as set forth in claim 1 or claim 2 characterised in that the base surface of the module unit (20) is rectangular.

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4. A mobile telephone device as set forth in one of the preceding claims characterised in that the module unit (20) is in the form of a flat, in particular parallelepipedic body.

5. A mobile telephone device as set forth in one of the preceding claims characterised in that the module unit (20) is in the form of a chip card.

6. A mobile telephone device as set forth in one of the preceding claims characterised in that the module unit (20) does not have any further electrical connecting elements besides the contact elements which co-operate with the contact elements at the receiving means side.

7. A mobile telephone device as set forth in one of the preceding claims characterised in that the base member (1) has an unlocking and/or ejection device for unlocking and/or ejection of the module unit (20).

8. A mobile telephone device as set forth in one of the preceding claims characterised in that in the inserted condition the module unit (20) projects from the base member (1).

9. A mobile telephone device as set forth in one of the preceding claims characterised in that the module unit (20) can be inserted without using a tool and/or without actuation, in particular dismantling, of cover elements.

10. A mobile telephone device as set forth in one of the preceding claims characterised in that the receiving means (8) has a mechanical guide (7).

11. A mobile telephone device as set forth in one of the preceding claims characterised in that the shape of the opening of the receiving means (8) is rectangular.

12. A mobile telephone device as set forth in one of the preceding claims characterised in that the base member (1) has movable latching hooks (3) for fixing the holding member.

13. A mobile telephone device as set forth in one of the preceding claims characterised in that the base member (1) has a hook device (6) for engaging the holding member.

14. A mobile telephone device as set forth in one of the preceding claims characterised in that the base member (1) has a data interface (2), in particular for data exchange by way of RS 232 and/or Bluetooth and/or IrDa.

15. A mobile telephone device as set forth in one of the preceding claims characterised in that the base member (1) has a socket (9) for an audio output.

16. A mobile telephone device as set forth in one of the preceding claims characterised in that the base member (1) has a processor.

17. A mobile telephone device as set forth in one of the preceding claims characterised in that the base member (1) is designed independently of the type of mobile telephone and the holding member is designed specifically for the type of mobile telephone.

18. A mobile telephone device as set forth in one of the preceding claims characterised in that the module unit (20) is designed independently of the type of mobile telephone.

19. A mobile telephone device as set forth in one of the preceding claims characterised in that the contact elements at the module side and/or the receiving means side are occupied by at least one and preferably 14 address lines and/or at least one and preferably 8 address/data lines and/or at least one and preferably two lines by way of which a synchronous protocol, in particular a I2C protocol is passed, and/or at least one and preferably 3 command lines, in particular command lines for an EEPROM, and/or at least one and preferably 2 supply voltages and/or at least one ground.

20. A mobile telephone device as set forth in one of the preceding claims characterised in that the module unit (20) has an EEPROM and/or a flash memory.

21. A mobile telephone device as set forth in one of the preceding claims characterised in that the module unit has a tab of a thin flexible material for pulling the module unit out of the receiving means.